



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1623/11
Box Sec

Applicant(s): Eric T. Kool

Group Art Unit: 1623

Serial No.: 09/483,337

Examiner: L. Crane

Confirmation No.: 8597

Docket No.: 220.0004 0101

Filed: January 14, 2000

Title: COMPOSITIONS AND METHODS FOR NONENZYMATIC LIGATION OF OLIGONUCLEOTIDES AND DETECTION OF GENETIC POLYMORPHISMS

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DEC 28 2001
TECH CENTER 1600/2900

Assistant Commissioner for Patents
Washington, D.C. 20231

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ **Small entity status is entitled to be asserted in the above-identified application.**
☒ An itemized return postcard.
☒ A Petition for Extension of Time for 1 month (1 pg).
☒ Please charge Deposit Account No. 13-4895 in the amount of \$55 for the Petition for Extension of Time.
☒ Other: Response to Restriction Requirement, Communication Regarding Entry of Sequence Listing, Preliminary Amendment, and Proposed Drawing Corrections (38 pgs, including Appendix A (18 pgs); 9 sheets of substitute drawings; Computer readable form (CRF) copy of "Sequence Listing" (one disk) and paper copy of "Sequence Listing" (17 pgs.); and a copy of Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosure.
Amendment ☒ No Additional fee is required. ☐ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$9 =	
Independent Claims				x \$40 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$135 Here →					
Total Additional Claim Fees Required					

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

CERTIFICATE UNDER 37 C.F.R. §1.8: The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 18th day of October, 2001.

MUETING, RAASCH & GEBHARDT, P.A.
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By:
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(SMALL ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT
Docket No. 220.0004 0101

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Eric T. Kool) Group Art Unit: 1623
Serial No.: 09/483,337)
Confirmation No.: 8579)
Filed: January 14, 2000)
For: COMPOSITIONS AND METHODS FOR NONENZYMATIC LIGATION OF
OLIGONUCLEOTIDES AND DETECTION OF GENETIC
POLYMORPHISMS

**RESPONSE TO RESTRICTION REQUIREMENT,
COMMUNICATION REGARDING ENTRY OF SEQUENCE LISTING,
PRELIMINARY AMENDMENT,
AND PROPOSED DRAWING CORRECTIONS**

Assistant Commissioner for Patents
Washington D.C. 20231

Dear Sir:

Please amend the above-identified application as follows:

In the Specification

Please replace the paragraph beginning at page 9, lines 6-12, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

Figure 6 shows the time course of autoligation of a hairpin DNA to closed circular dumbbell form at 25 °C (lanes 5-10), with comparison to ligation mediated by T4 DNA ligase in the same sequence (lanes 1-4); complete reaction requires two ligations, the first of which joins two hairpins (creating a nicked dumbbell), and then a second, which closes the dumbbell into circular form; the sequence of the autoligating hairpin is 5'-I-
d(TCCAGCGTACTTTTGTACGCTGGATGCA)-pS-3'(SEQ ID NO:1), and that of the comparison hairpin is d(pTCCAGCGTACTTTTGTACGCTGGATGCA)(SEQ ID NO:2).

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